

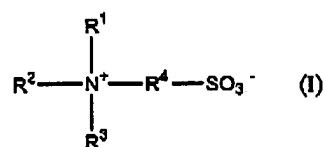
Serial No. 10/017,804

Attorney Docket No. WI 00005 (7244*121)

In the Claims

Please cancel claims 16-34. Please add the following new claims.

- 35. A recording material which comprises a support and a negative-working, radiation-sensitive layer which comprises a diazonium salt and a polymeric binder, the radiation-sensitive layer comprises a sulphobetaine, wherein the sulphobetaine is of the formula I



in which

R¹ to R³ are identical or different and are substituted or unsubstituted and/or mono- or polyunsaturated, acyclic or isocyclic hydrocarbon radicals having from 1 to 16 carbon atoms, in which one or more methylene groups is optionally replaced by

-O-, -S-, -NH-, -CO-NH- and/or -O-CO-NH-groups, and, in the case of the acyclic radicals, each two thereof is optionally linked to one another to form a saturated or unsaturated ring, and

R⁴ is a substituted or unsubstituted (C₁-C₆) alkanediyl group.

36. The recording material according to claim 35, wherein the radiation-sensitive layer in addition comprises a combination of a polymerizable monomer or oligomer and a photopolymerization initiator.
37. The recording material according to claim 35, wherein at least one of the radicals R¹ to R³ is a methyl radical.

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38. The recording material according to claim 35, wherein two of the radicals R^1 to R^3 are linked to one another with formation of a five- to seven-membered ring.
39. The recording material according to claim 35, wherein the radical R^4 is a substituted or unsubstituted ethane-1,2-diyl, propane-1,3-diyl or butane-1,4-diyl radical.
40. The recording material according to claim 35, wherein the proportion of the sulphobetaine is from 1 to 15% by weight, based on the total weight of the non-volatile constituents of the radiation-sensitive layer.
41. The recording material according to claim 35, wherein the radiation-sensitive layer has been colored using dyes and/or pigments.
42. The recording material according to claim 35, wherein the diazonium salt is a condensation product of an aromatic diazonium salt.
43. The recording material according to claim 35, wherein the weight of the radiation-sensitive layer when dried is from 0.3 to 3.0 g/m².
44. The recording material according to claim 35, wherein the material is pigmented or matted.
45. The recording material according to claim 35, wherein the support is a plate, a film, a foil or a band of metal, plastic or a plastic/metal laminate.
46. The recording material according to claim 45, wherein the support is an aluminum or an aluminum alloy, and at least one side of the support has been mechanically, chemically

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and/or electrochemically roughened, and optionally anodically oxidized and/or chemically aftertreated.

47. The recording material according to claim 35, wherein the support has been provided with a back coating of polymeric materials.
48. A process for the production of a printing plate for offset printing, which comprises exposing imagewise the recording material according to claim 35, and subsequently developing using an aqueous-alkaline developer.
49. The recording material according to claim 38, wherein two of the radicals R^1 to R^4 are linked to one another to form a morpholinium ring or a pyridinium ring.
50. The recording material according to claim 39, wherein the proportion of the sulphobetaine is from 2 to 10% by weight based on the total weight of the non-volatile constituents of the radiation-sensitive layer.
51. The recording material according to claim 50, wherein the weight of the radiation-sensitive layer when dried is from 0.5 to 2.0 g/m².
52. The recording material according to claim 50, wherein the weight of the radiation-sensitive layer when dried is from 0.6 to 1.6 g/m².
53. A recording material which comprises support and a negative-working, radiation-sensitive layer which comprises a diazonium salt and a polymeric binder, the radiation-sensitive layer comprises a sulphobetaine as surfactant.

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54. A recording material which comprises a support and a negative-working, radiation-sensitive layer which comprises a diazonium salt and a polymeric binder, the radiation-sensitive layer comprises a sulphobetaine.--